



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/981,151B
Source: 1/F4/16
Date Processed by STIC: 4/14/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221**

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/981,151B

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHIA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleic Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
- 3 Misaligned Amino Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as **required by the Sequence Rules**. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per **Sequence Rules**, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 7 Skipped Sequences (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for **each** skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading).
 (ii) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for **each** skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213> Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) *161-166* missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/981,151B

DATE: 04/14/2004

TIME: 15:05:29

Input Set : A:\Cura 468 new SEQ list.txt
Output Set: N:\CRF4\04142004\I981151B.raw

3 <110> APPLICANT: Edinger, Shlomit R
4 Gerlach, Valerie
5 MacDougall, John R
6 Malyankar, Muriel M
7 Smithson, Glennda
8 Millet, Isabelle
9 Peyman, John A
10 Stone, David J
11 Gunther, Erik
12 Ellerman, Karen
13 Shimkets, Richard A
14 Padigaru, Muralidhara
15 Guo, Xiaojia
16 Paturajan, Meera
17 Taupier Jr, Raymond J
18 Burgess, Catherine E
19 Zerhusen, Bryan D
20 Kekuda, Ramesh
21 Spytek, Kimberly A
22 Gangolli, Esha A
23 Fernandes, Elma R
24 Gorman, Linda
26 <120> TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
28 <130> FILE REFERENCE: 21402-168
30 <140> CURRENT APPLICATION NUMBER: 09/981,151B
31 <141> CURRENT FILING DATE: 2001-10-16
33 <150> PRIOR APPLICATION NUMBER: 60/241,040
34 <151> PRIOR FILING DATE: 2000-10-17
36 <150> PRIOR APPLICATION NUMBER: 60/241,058
37 <151> PRIOR FILING DATE: 2000-10-17
39 <150> PRIOR APPLICATION NUMBER: 60/241,063
40 <151> PRIOR FILING DATE: 2000-10-17
42 <150> PRIOR APPLICATION NUMBER: 60/241,243
43 <151> PRIOR FILING DATE: 2000-10-17
45 <150> PRIOR APPLICATION NUMBER: 60/242,152
46 <151> PRIOR FILING DATE: 2000-10-20
48 <150> PRIOR APPLICATION NUMBER: 60/242,482
49 <151> PRIOR FILING DATE: 2000-10-23
51 <150> PRIOR APPLICATION NUMBER: 60/242,611
52 <151> PRIOR FILING DATE: 2000-10-23
54 <150> PRIOR APPLICATION NUMBER: 60/242,612
55 <151> PRIOR FILING DATE: 2000-10-23
57 <150> PRIOR APPLICATION NUMBER: 60/242,880

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/981,151B

DATE: 04/14/2004

TIME: 15:05:29

Input Set : A:\Cura 468 new SEQ list.txt
Output Set: N:\CRF4\04142004\I981151B.raw

58 <151> PRIOR FILING DATE: 2000-10-24
60 <150> PRIOR APPLICATION NUMBER: 60/242,881
61 <151> PRIOR FILING DATE: 2000-10-24
63 <150> PRIOR APPLICATION NUMBER: 60/259,028
64 <151> PRIOR FILING DATE: 2000-12-29
66 <150> PRIOR APPLICATION NUMBER: 60/269,813
67 <151> PRIOR FILING DATE: 2001-02-20
69 <150> PRIOR APPLICATION NUMBER: 60/286,324
70 <151> PRIOR FILING DATE: 2001-04-25
72 <150> PRIOR APPLICATION NUMBER: 60/294,108
73 <151> PRIOR FILING DATE: 2001-05-29
75 <150> PRIOR APPLICATION NUMBER: 60/303,968
76 <151> PRIOR FILING DATE: 2001-07-09
E--> 78 <160> NUMBER OF SEQ ID NOS: 160/66 (p.3)
80 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES



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<210> SEQ ID NO 161
<211> LENGTH: 4
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence:
<400> SEQUENCE: 161
Asn Glu Gln Lys
1

response needed
that explains
source of genetic
material (see
item 11
in Error
Summary
Sheet)

<210> SEQ ID NO 162
<211> LENGTH: 4
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence same error
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence:
<400> SEQUENCE: 162
Asn His Gln Lys
1

<210> SEQ ID NO 163
<211> LENGTH: 4
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence same
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence:
<400> SEQUENCE: 163
Asn Asp Glu Gln
1

<210> SEQ ID NO 164
<211> LENGTH: 4
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence same
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence:
<400> SEQUENCE: 164
Gln His Arg Lys
1

<210> SEQ ID NO 165
<211> LENGTH: 4
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence same
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence:
<400> SEQUENCE: 165
Met Ile Leu Val
1

FYI
<210> SEQ ID NO 166 last sequence in submitted file
<211> LENGTH: 4
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence same
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence:
<400> SEQUENCE: 166

FYI

Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding
explanation is presented in the <220> to <223> fields of
each sequence using n or Xaa.

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Met Ile Leu Phe
1

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/981,151B

DATE: 04/14/2004

TIME: 15:05:31

Input Set : A:\Cura 468 new SEQ list.txt
Output Set: N:\CRF4\04142004\I981151B.raw

L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:840
M:341 Repeated in SeqNo=1
L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:272
M:341 Repeated in SeqNo=2
L:1977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:2160
M:341 Repeated in SeqNo=23
L:3377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:448
L:6527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:32
L:78 M:203 E: No. of Seq. differs; <160> Number Of Sequences:Input (160) Counted (166)